

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T (pursuant to NAC 445A.236)

Permittee Name: Utilities Inc. of Central Nevada (UICN)
1240 East State Street Suite 115
Pahrump, Nevada 89048

Permit Number: NEV89063

Description of Discharge:

Location: The Utilities Inc. of Central Nevada wastewater treatment Plant # 3 is located in Unit # 7, Block 35, Lots 131, 132 at the Willow Creek Championship Golf Course in Pahrump, Nye County, Nevada. Section 22, T. 22S, R. 53E. MDB&M. Latitude: 36°12'00"N; Longitude 116°00'30"W. The reuse irrigation sites are the adjacent 18 hole Willow Creek golf course and driving range and the 18 hole Calvada Executive Lakeview golf course.

Characteristics: The permit renewal coincides with the addition of the Executive Lakeview golf course for additional reuse irrigation. The wastewater generated in the Pahrump service area is discharged to the headworks of the plant (Parshall flume and bar screen) and into flow equalization basins. From here the wastewater passes through a constant head flow splitter box, pre-anoxic and aeration basins to the post anoxic basins before it is next denitrified, reaerated and clarified, completing the secondary biological treatment process that reduces biochemical oxygen demand (BOD) and nitrogen. Return waste activated sludge is routed to the aerobic sludge digester and return activated sludge is returned to the aeration basin. Digested sludge is removed by truck by Joe's Sanitation Service and delivered for use for nutrient supplementation via land application under an individual biosolids users permit. Mixed liquor from the clarifier(s) flows to the tertiary portion of the plant where effluent passes through the filter flow splitters and into the rapid sand filters. Backwash waste water flows to the mudwell, and effluent enters the clearwell/chlorine contact chamber for disinfection before it is discharged to the effluent lift station which pumps the effluent to the golf course's lakes for storage and reuse via irrigation.

Flow: The facility has a 30-Day Average flow limitation of 0.600 MGD. Any future expansion of plant capacity will be dependent upon Division review and approval of plans for that expansion. Influent flow is measured in a flow measuring chamber upstream of the Parshall flume. Effluent flow is measured prior to discharge to the effluent storage ponds.

Limitations: Influent Flow, CBOD₅, and Total Suspended Solids (TSS) are required to be sampled at the headworks, and effluent Flow, CBOD₅, TSS, Ammonia as N, Nitrate as N, Total Nitrogen as N, pH after treatment, and Fecal Coliform at the end of pipe prior to discharge to the golf course effluent storage ponds. CBOD₅ and TSS limits are 10 mg/l (30-day ave.) and 15 mg/l (Daily max.), with limits for pH of 6.0 - 9.0 SU, Total Nitrogen as N 10 mg/l, and fecal coliform 2.2 CFU/100 ml. Ammonia as N, and nitrate as N are also monitored. Additionally a yearly water balance is required.

General: UICN manages and operates this Tertiary activated sludge process Marwood wastewater treatment facility (Plant # 3) located on the Championship Willow Creek Golf Course (formerly Calvada Valley subdivision and golf course) in Pahrump, Nevada. Continued growth may initiate plans for a future plant expansion to meet the needs of this growth. Effluent is blended with groundwater in the golf course ponds to meet irrigation requirements. Monitoring wells are installed adjacent to the effluent storage lakes and within the golf course.

No negative environmental impacts are anticipated as a result of the issuance of this permit.

Receiving Water Characteristics: Receiving waters are the groundwaters of the State of Nevada. Based on historic data, groundwater in the area meets drinking water quality. Depth to groundwater is approximately 100 feet.

Procedures for Public Comment:

The Notice of the Division's intent to reissue the permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal and Pahrump Valley News** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of newspaper publication (May 5, 2003) of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to issue the proposed permit for a five (5) year period.

Schedule of Compliance and Special Conditions

- a. A revised Operations and Maintenance Manual (O & M) and a revised Effluent Management Plan (EMP) shall be submitted to the Division for review and approval by July 30, 2003. A current Sludge Management Plan shall also be included in the O & M Manual. If sludge is disposed to locations other than approved landfill sites, said plan must also address Part 40 CFR Section 503 of the federal regulations. The EMP shall include information in accordance with WTS-1. A groundwater monitoring plan shall also be included in the EMP as an Appendix.
- b. A letter of Certification wet-stamped by a Nevada Registered Professional Engineer stating that all plant reuse expansion components (ponds), export pipeline, and cross connection control measures to protect other water sources are installed and constructed in accordance with Division approved plans, shall be submitted to the Division. A copy of the as-builts for the new facilities and any related infrastructure shall also be included with the Certification.

There are no special conditions.

Rationale For Permit Requirements

Monitoring is required to assess the level of treatment being provided and to ensure that groundwaters of the State are not degraded. Required parameters are monitored to ensure effluent reuse requirements are maintained.

Prepared by: Icyl Mulligan
February-March 2003